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Product datasheet for RC203406

DPP3 (NM_130443) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DPP3 (NM_130443) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DPP3
Synonyms:	DPPIII
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

View online »

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ORF Nucleotide Sequence:

>RC203406 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGGACACCCAGTACATCCTGCCCAATGACATCGGCGTGTCTAGCCTGGACTGCCGTGAGGCCTTCC
GCCTGCTGTCACCCACAGAGCGCCTCTATGCCTACCACCTGTCCCGTGCCGCCTGGTACGGAGGCCTGGC
TGTGCTGCTTCAGACCTCCCCTGAGGCCCCCTACATCTATGCTCTGCTCAGCCGCCTCTTCCGCGCCCAG
GACCCCGACCAGCTGCGCCAACATGCCCTGGCTGAAGGCCTTACCGAGGAGGAGTATCAGGCGTTCCTGG
TCTATGCCGCGGGTGTTTACTCCAACATGGGCAACTACAAGTCCTTTGGTGACACCAAGTTTGTTCCCAA
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TCTGAGCGTTTCCCAGAGGATGGACCCGAGTTGGAGGAGATCCTCACACAGCTGGCCACAGCCGATGCCC
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ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

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>RC203406 protein sequence
Red=Cloning site Green=Tags(s)

MADTQYILPNDIGVSSLDCREAFRLLSPTERLYAYHLSRAAWYGGLAVLLQTSPEAPYIYALLSRLFRAQ
DPDQLRQHALAEGLTEEEYQAFLVYAAGVYSNMGNYKSFGDTKFVPNLPKEKLERVILGSEAAQQHPEEV
RGLWQTCGELMFSLEPRLRHLGLGKEGITTYFSGNCTMEDAKLAQDFLDSQNLSAYNTRLFKEVDGEGKP
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REKLTFLEEDDKDLYILWKGPSFDVQVGLHELLGHGSGKLFVQDEKGAFNFDQETVINPETGEQIQSWYR
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AFNWRQAHMQARFVILRVLLEAGEGLVTITPTTGSDGRPDARVRLDRSKIRSVGKPALERFLRRLQVLKS
TGDVAGGRALYEGYATVTDAPPECFLTLRDTVLLRKESRKLIVQPNTRLEGSDVQLLEYEASAAGLIRSF
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV
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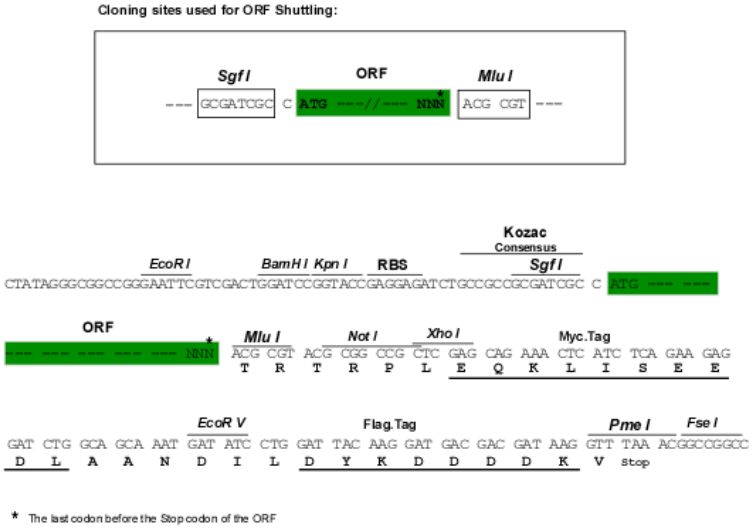
Chromatograms: https://cdn.origene.com/chromatograms/mk6413_h09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_130443

ORF Size: 2211 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. 3. Close the tube and incubate for 10 minutes at room temperature. 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_130443.4
RefSeq Size:	3101 bp
RefSeq ORF:	2214 bp
Locus ID:	10072
UniProt ID:	Q9NY33
Cytogenetics:	11q13.2
Domains:	Peptidase_M49
Protein Families:	Druggable Genome, Protease
MW:	82.6 kDa
Gene Summary:	This gene encodes a protein that is a member of the M49 family of metallopeptidases. This cytoplasmic protein binds a single zinc ion with its zinc-binding motif (HELLGH) and has post-proline dipeptidyl aminopeptidase activity, cleaving Xaa-Pro dipeptides from the N-termini of proteins. Increased activity of this protein is associated with endometrial and ovarian cancers. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Feb 2012]

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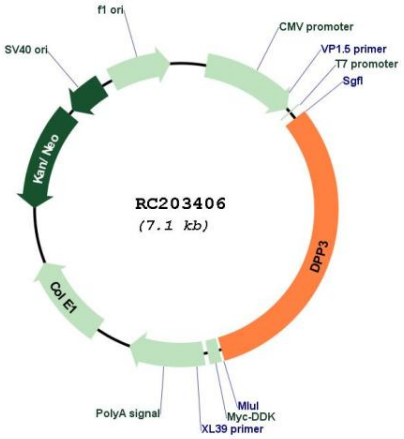
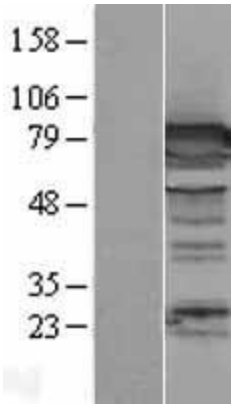
Product images:



Circular map for RC203406



Western blot validation of overexpression lysate (Cat# [LY408959]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC203406 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

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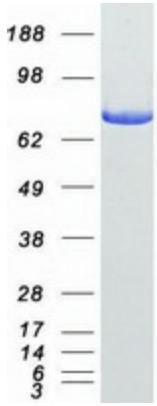

Coomassie blue staining of purified DPP3 protein (Cat# [TP303406]). The protein was produced from HEK293T cells transfected with DPP3 cDNA clone (Cat# RC203406) using MegaTran 2.0 (Cat# [TT210002]).

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